

EDITORIAL BOARD

Chief Editor



Dr.S.Senthilkumar
Assistant Professor

Associate Editor



Mr.K.Vijay Chandra
Assistant Professor

Students Associates

K.Sri Nithya (16071A1023)

K.Sreya (16071A1019)

Kiran Verma (16071A1021)

Editorial

Automation-Boon or Bane

Every coin has two sides. So does the enhancement in technology. When one side offers opportunities and confidence, the other plunges its harder truth in the fear of losing existing opportunities along with the white collar jobs. The Indian economy is in transition with the on-going impact of automation on the employment of certain population which are involved in industrial control and services sector. Though automation leads to creation of various new jobs(which are in need of high experience),the destruction of the jobs which are high in number with the present economic situation is even more concerning. Under controlled scenarios automation reduces the cost of a firm, leads to reduced corruption and bureaucratic discretion. It also increases the social economic infrastructural level which in turn attracts high range investments developing the country's national and international standards. Automation becomes a problem when higher number of jobs is at stake. The requirement of new jobs is freelancing at nature thus pressuring abnormal situations among employees. As we can clearly integrate the changes brought by this developing side of technology, let's hope for the right mix of solution to be brought in the varied interests of the economy as a whole.

**VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI
INSTITUTE OF ENGINEERING AND TECHNOLOGY**

An Autonomous Institute, NAAC Accredited with A++ Grade
NBA Accredited for CE, EEE, ME, ECE, CSE, EIE, IT B.Tech Courses

Approved by AICTE, New Delhi, Affiliated to JNTUH

Recognized as "College with Potential for Excellence" by UGC

EAMCET CODE: VJEC

PGECETCODE: VJEC1



Message from HOD

Factual content and procedures that constitute the knowledge base of the discipline around the big ideas of the domain, links new knowledge to what is already known by presenting concepts in a conceptually and logically sequenced order that builds upon previous learning within and across grade levels. The vision of the department is to be well known department that will serve as a source of knowledge and expertise in the field of Instrumentation for the society by rendering value added education to the students. The department's mission is to impart dynamic education and develop engineers, technocrats, and researchers to provide services and leadership for development of the nation. To bridge the gap between industry and academia, faculty members connect to industries through i- Connect activities like industrial visits, expert lectures, sponsored projects, workshops, training, MOUs with renowned industries. It provides internship and placement opportunities for students.



Dr. R. Manjula Sree
HOD: EIE

Students Achievements

- Akshathala Srimayee and Lokesh Kumar Gajula from III B. Tech EIE got selected for the national-level hackathon of NASA Space apps challenge 2022, which will be held on Oct 1st and 2nd at Chandigarh University.
- B Manisha, B Ruthvik, K Sathish Chandra, G Sanjana from III B. Tech EIE got outstanding participation and efforts to solve challenges on earth and in space held on Oct 1st and 2nd at Chandigarh University.
- Ch.Sarika(22071A1080) of I Year EIE student has participated in 48th Junior National Volley Ball championship – 2022 held at Jammu & Kashmir during 14th – 19th NOV 2022.
- 6 students and 2 Faculty members from the department went to demonstrate Project at DRDO, Kanchan Bagh on 8th December 2022.
- Ancha Lakshmi Pravallika (22071A1068) of I Year EIE student bagged 2nd position in Rubik's Cube Competition in National Mathematics Day-2022 held on 22nd December 2022.

Students sponsored for Seminars/Workshops/Training Programmes/Guest Lectures/Motivational Lectures/Career Vision and Awareness Programmes/Sports conducted in the Institute/Outside the Institute

S. No	Particulars of the Event	Beneficiaries	Date	No. of Participants	Impact of Program
1	NSS Orientation Program	II Year EIE Students	30th November	15 students from both sections	Participated in the event.

Students Internship Details:

S.No	Name	Roll No./Phone No.	Name of the Company
1	B Sai kartheek reddy	19071A1060	Mediamint
2	Anju Rishitha Sagiraju	19071A1001	Mediamint
3	Narukulla Dadeepya Krishna	19071A1032	Mediamint

Students Placement

S.No	Name	Roll.NO	Company
1	Rumandla Ranjith Kumar	19071A1026	Accenture
2	Suhas Patlolla	19071A1044	Accenture
3	Movva Divya Sree	19071A1087	Cognizant
4	Gowri Saranya	19071A1008	L&T Infotech
5	Kanthala Manusha	19071A1078	L&T Infotech
6	Jamedar Dhakshayani	19071A1072	Worley Parson
7	Rohan surukutla	19071A10A0	LTI
8	Reshma Ramagiri	20075A1006	Dr Reddy's Lab
9	Endurthi Vinay Reddy	19071A1015	Worley Parson
10	Kiranmai Vadlagatta	19071A10A4	TCS JOB
11	B Sai kartheek reddy	19071A1060	Mediamint
12	Dheeraj Harale	19071A1012	Syncron
13	Anju Rishitha Sagiraju	19071A1001	Mediamint

Events Organized

- Guest Lecture is organized for II Year EIE A & B Section Students on “Electric Vehicle Motion Control”, by Mr. Ashok Kumar Jha, Engineering Director -"Active Safety Engineering-India" at ZF Group at B-Block Seminar Hall on 22nd Oct 2022. 60 students and 2 faculty members attended the lecture.



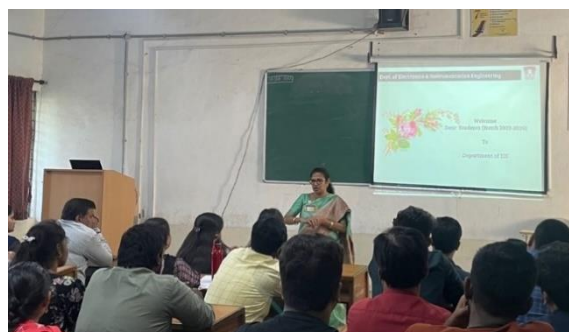
- Guest Lecture is Organized for II & III Year EIE Students on “Imaging from Space”, Dr D Sudheer Reddy Scientist/Engineer, ADRIN, Dept. of space, Secunderabad on 29th Oct 2022 from 2:00PM in B-Block Seminar Hall. 55 students and 2 faculty members attended the lecture.



- 14th Board of Studies (BoS) meeting conducted in the department of EIE on 29th Oct 2022 from 2:30PM



- I Year students Induction Program (SIP) conducted for I Year Students and Parents in the department on 03rd Nov 2022 in room no's C-201 & C-202 respectively.



- Department of EIE in collaboration with ISOI Student chapter organized “KNOCK OUT debate Competition for students”, on 9th November 2022 at JSK Greens of VNRVJIET.



- II Year EIE students went for Industrial visit to L & T Metro, Nagole, Hyderabad on 03rd December 2022. Total 103 students + 4 Faculty members visited L & T Metro.



- Special Lecture session on Computer Network Security for IV Year B.Tech EIE Students by Dr.K.Archana Bhange, Asst.Professor, ECE, VNRVJIET on 03rd December 2022 from 10:15AM to 1:00PM.

- 6 students and 2 Faculty members from the department went to demonstrate project at DRDO, Kanchan Bagh on 08-12-2022.



- Department of EIE has organized international conference IEEE ICMACC 2022 during 28th-30th December 2022.

- Dr.R.Manjula Sri is one of the conference chairs. Dr.K.Vidya Sagar, Dr.S.Pravananad, Dr.V.Nageshwar, Dr.K.Vijay Chandra, Mr.S.Nagarjuna Chary, Mrs.S.Vandana, Mrs.SS Bharathi Sagi, Mrs.D.Srilaxmi, Mr.B.Goutam have worked in different teams as core committee members.
- Dr.Senthil Kumar, Dr.M.Hari Krishna, Mr.A.Adhitya Kashyap has reviewed few technical papers.



Faculty Participation

- Dr.Chakravartula Kiran, Assoc.Professor, attended Round Table Discussion on "Education beyond Borders" organized by International Skill Development Corporation, as the GRO on 10th October 2022.
- Dr.V.Nageshwar, Assoc.Professor attended and presented papers in International Conference on "Data Analytics, Smart Computing and Networks (IDASCN 2K22)", Organized by the Department of Information Technology, Mohan Babu University at Tirupati during 13th-15th October 2022.
- Dr.K.Vijay Chandra, Asst.Professor attended and presented papers in International Conference on "Data Analytics, Smart Computing and Networks (IDASCN 2K22)", Organized by the Department of Information Technology, Mohan Babu University at Tirupati during 13th-15th October 2022.
- Dr.Chakravartula Kiran, Assoc.Pofessor, attended the monthly meeting of Telangana Incubators and Enablers Network at EdVenture Park Hardware incubator at Masab Tank on 20th October 2022.
- Dr. Chakravarthula Kiran, Associate Professor, attended the second webinar in the Brent Felder Webinar Series conducted by the Indo-Universal Collaboration for Engineering Education (IUCEE). This webinar titled "Why Engineering Education Must Change ... and how to go about it!" by Dr. Roger Hadgraft, Director-Educational Innovation and Research and Faculty of Engineering and Information Technology at University of Technology Sydney. On 26th Oct 2022.
- Mr.A.Adhitya Kashyap, Asst.Professor, attended International Conference on "CHEMBIOEN 2022", organized by Dept. of Chemical Engg., BVRIT & NIT Jalandhar during 4th-5th November 2022.
- Dr.B. Raja Sekhara Reddy, Asst.professor, attended training session on "Solar Software – PVSYST & HELIOSCOPE", at Environmental Protection Training and Research Institute, Gachibowli, Hyderabad from 09th to 11th of November 2022.
- D.Swetha, Asst.Professor attended a training program on Fabrication and Characterization of Nanomaterials organized by VNR Vignana Jyothi Institute of Engineering and Technology, Bachupally, Hyderabad during 16th-19th November 2022.
- Dr.C.Kiran, Associate Professor, delivered a talk on Nanomaterials in Medicine, as a part of IEEE Nanotechnology Summer School 2022 on "Fabrication and Characterization of Nanomaterials" on 18th November 2022.
- G.Vamsi Krishna, Asst.Professor attended FDP on MATLAB – Artificial Intelligence & Optimisation Techniques", organized by Electrical Engineering Department, National Institute of Technical Teachers Training and Research, Chandigarh during 21st-25th November 2022.

- S.Vandana, D.Srilami & Ch.Venkanna Asst. Professors attended Semcon Road Show Panel Discussion on “Can Indian be the next South Korea”, organized by VJ Hub at K.S Auditorium, VNRVJiet, Hyderabad. On 29th November 2022.
- Dr.V.Nageshwar, Assoc.Professor Dr.K.Vijay Chandra, Mr. A. Adithya Kashyap, G.Vamsi Krishn and Ch.Venkanna Asst.Professors, attended Faculty Development Program on Research Methodology, Design and Innovation held at department of EIE, CVR College of Engineering, Hyderabad during 16th-21st Dec 2022.
- Ms.S.Vandana, Asst.Professor, attended Winter School session on “ Sensors for Industry 4.0: roles, Challenges and Applications organized by IEEE Sensors Council Hyderabad Chapter held at IIIT, Hyderabad during 20th – 21st Dec 2022.
- Dr.R.Manjula Sri, Professor & Head and Mrs.D.Srilaxmi, Asst.Professor attended Lalitha Memorial lecture by Ms. Tessy Thomas, Scientist and Director General, Aeronautical systems at DRDO. organized by IEEE Hyderabad section and WIE at Hotel Plaza Hyderabad on 16th December 2022.
- Dr.R.Manjula Sri, Professor & Head and Mrs.D.Srilaxmi, Asst.Professor attended a talk by Dr.Uma Devi, Scientist, NRSC organized as part of 25 years of WIE AG Celebrations at Hotel Plaza Hyderabad on 16th December 2022.
- Mr.G.Vamsi Krishna, Asst.Professor, attended Dr. EVR Rao Endowment Lecture organized by ISOI Hyderabad at IETE conference Hall, OU Hyderabad on 17th December 2022.

Faculty Achievements

- Dr. M.Hari Krishna, Assoc.Professor, EIE has successfully completed Ph.D. on 31st Oct 2022 at Osmania University, Hyderabad.

Research and Development (R & D)

Journals

Faculty Name, Designation & Department	List of Authors in the order that appears on the paper	Full Title of the Paper	Conference in which the Paper Published	Volume Issue, Page Nos.	Date/ Month & Year of Publication	ISSN No. / ISBN No.	Indexed
Dr.M.Sreedhar Professor/EIE	Mala Raju, Dr M Sreedhar	Switched-Capacitor Voltage Boost Converter for Electric and Hybrid Electric Vehicle Drives	Neuro Quantology	Volume 20 Issue 15	Decembe r 2022	Dr.M.Sreedhar Professor/EIE	Scopus
Dr.K.Vidyasagar Professor/EIE	K.Srimeghana K.Vidyasagar	Prediction of Crop Yielding rate using machinelearning algorithms	Neuro Quantology	Volume 20 Issue 15	Decembe r 2022	Dr.K.Vidyasagar Professor/EIE	-
Dr.S.Pranavanand Assoc.Professor/EI E	Karna Vishnu Vardhana Reddy Irraivan Elamvazuthi Azrina Abd Aziz Sivajothi Paramasivam Hui Na Chua	An Efficient Prediction System for Coronary Heart Disease Risk Using Selected Principal Components and Hyperparameter Optimization	Multidisciplinar y Digital Publishing Institute (MDPI) Applied science	Appl. Sci. 2023, 13, 118.	Decembe r 2022	Dr.S.Pranavanand Assoc.Professor/EI E	Scopus
Dr.K.Sudha Rani Assoc.Professor/EI E	Dr.K.Sudha Rani1, Aitha Vamshi Krishna	Blood Cell Classification Using Smear Images Based On Machine Learning Techniques	Neuro Quantology	Volume 20 Issue 15	Decembe r 2022	Dr.K.Sudha Rani Assoc.Professor/EI E	Scopus
N.Akshay Assistant Professor/EIE	Mohammed Sohail Naregalkar Akshay	IoT Enabled Industrial Process Monitoring System	Neuro Quantology	Volume 20 Issue 20 Pp 200- 210	Decembe r 2022	N.Akshay Assistant Professor/EIE	Scopus
Srilaxmi Dasari Assistant Professor/EIE	Beesa Shireesha Srilaxmi Dasari	Detection and Classification of DiabeticRetinopath y from fundus images using Machine Learning Techniques	Neuro Quantology	Volume 20 Issue 15	Decembe r 2022	Srilaxmi Dasari Assistant Professor/EIE	Scopus

Conferences/Book chapter/Lecture Notes

Faculty Name, Designation & Department	List of Authors in the order that appears on the paper	Full title of the paper	Conference in which the paper published	Volume Issue, Page Nos.	Date/ Month & Year of publication
Dr.V. Nageshwar Associate Professor/EIE	V. Nageshwar, P.Kishore, K.Bhanu Teja, A.Keerthi Sri, U. Tejaswi Devi	Automatic Epilepsy detection using Machine Learning Naïve Bayes technique	International Conference on Data Analytics, Smart Computing and Networks (IDASCN 2K22)	-	13th – 15th October 2022.
Dr. V. Nageshwar Associate Professor/EIE	Nageshwar V , Vijaya Kumar Gurrala , Madhukeerthi Reddy A. , Madhupathiramy , Valakati Sridivya	Time And Frequency Domain Decomposition Models For Improved EEG Epileptic Seizure Detection And Classification	International Conference on Data Analytics, Smart Computing and Networks (IDASCN 2K22)	-	13th – 15th October 2022.
Dr. K. Vijay Chandra Assistant Professor/EIE	Dr. K. Vijay Chandra, Dr. K. Vidya Sagar, Dr. K.Sudha Rani, Dr. Poornaiah Billa, C.V.Ram Babu	An Artificial Intelligent Specular Corneal Layer Analysis For Disease Profiling	International Conference on Data Analytics, Smart Computing and Networks (IDASCN 2K22)	-	13th – 15th October 2022.
Dr. K. Vijay Chandra Assistant Professor/EIE	Dr.K.Vijay Chandra, C.V.Ram Babu, Dr. K.Sudha Rani, Dr. K. Vidya Sagar, Dr. Poornaiah Billa	Deep Learning based approach for detection of COVID-19 on CT Images using Residual Networks	International Conference on Data Analytics, Smart Computing and Networks (IDASCN 2K22)	-	13th – 15th October 2022.
Dr. K. Vijay Chandra Assistant Professor/EIE	Dr.K.Vijay Chandra, Dr. K.Sudha Rani, C.V.Ram Babu, Dr. K. Vidya Sagar, Dr. Poornaiah Billa	AN Artificial Intelligent Specular Corneal Endothelium Analysis Using Machine Vission Approach	International Conference on Data Analytics, Smart Computing and Networks (IDASCN 2K22)	-	13th – 15th October 2022.
Dr.C.Kiran Associate Professor/EIE	Gnyanesh Bangaru, Lalith Bharadwaj Baru, Kiran Chakravarthula	Representational Structure of Neural Networks Trained on Biased and Out-Of-Distribution Data	The 33rd British Machine Vision Conference (BMVC 2022)	---	21st - 24th November 2022

